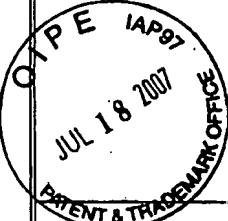


INFORMATION DISCLOSURE CITATION IN AN APPLICATION  (PTO-1449)				ATTY. DOCKET NO. 070456-0016	SERIAL NO. 10/787,221	
				APPLICANT Kouichi OKUGAMI, et al.	FILING DATE February 27, 2004	GROUP 3682
U.S. PATENT DOCUMENTS						
EXAMINER' S INITIALS	CITE NO.	Document Number Number-Kind Code ₂ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
/JK/		US 6,258,179	07-10-2001	Takayama, et al.		
		US 2003/0075244 A1	04-24-2003	Kurebayashi, et al.		
		US 5,972,130	10-26-1999	Underys, et al.		
		US 5,129,966	07-14-1992	Rao		
		US 6,251,198	06-26-2001	Koo, et al.		
		US 5,772,956	06-30-1998	Hasegawa, et al.		
		US 2003/0040401 A1	02-27-2003	Okita, et al.		
		US 7,147,382	12-12-2006	Suzuki, et al.		
		US 6,532,920 B1	03-18-2003	Sweetnam, et al.		
		US 6,447,619 B1	09-10-2002	Takayama et al.		
		US 6,328,009 B1	12-11-2001	Brothers		
		US 6,306,227 B2	10-23-2001	Okayama et al.		
		US 6,158,263	12-12-2000	Maeda et al.		
		US 6,095,692	08-01-2000	Takemura		
		US 2005/0205163 A1	09-22-2005	Ohki		
		US 2004/0170348 A1	09-02-2004	Okugami et al.		
FOREIGN PATENT DOCUMENTS						
EXAMINER' S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number & Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation
/JK/		WO 91/00929	01-24-1991			Yes No
/JK/		JP 63-185917	11-29-1988	Koyo Seiko Co., Ltd.		English Abstract Only
/JK/		JP 2002-194438	07-10-2002	NSK Ltd.		JAPAN (w/Partial English Translation)
/JK/		JP 2002-031212	01-31-2002	Koyo Seiko Co., Ltd.		JAPAN (w/English Abstract)
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
EXAMINER' S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
EXAMINER /Justin Krause/			DATE CONSIDERED 10/24/2007			

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/JK/		US 6,012,851	01-11-2000	Hirakawa et al.			
		US 5,979,383	11-09-1999	Faville et al.			
		US 5,944,916	08-31-1999	Chung			
		US 5,853,249	12-29-1998	Maeda et al.			
		US 5,803,893	09-08-1998	Yoshida et al.			
		US 5,792,286	08-11-1998	Inoue et al.			
		US 5,775,280	07-07-1998	Schmidt et al.			
		US 5,733,667	03-31-1998	Nakasuji et al.			
		US 5,658,082	08-19-1997	Tsushima et al.			
		US 5,611,250	03-18-1997	Narai et al.			
		US 5,595,610	01-21-1997	Maeda et al.			
		US 5,456,766	10-10-1995	Beswick et al.			
		US 5,456,136	10-10-1995	Yamashita et al.			
		US 5,427,600	06-27-1995	Itoh et al.			
		US 5,427,457	06-27-1995	Furumura et al.			
↓		US 5,375,323	12-27-1994	Sata			
		US 3,954,517	05-04-1976	Jatczak et al.			
FOREIGN PATENT DOCUMENTS							
EXAMINER' S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number +-Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes	Translation No
/JK/		JP 2001-200314	07-24-2001	NTN Corp		JAPAN (w/English Abstract)	
/JK/		JP 2000-212721	08-02-2000	NSK Ltd.		JAPAN (w/English Abstract)	
/JK/		JP 2000-205284	07-25-2000	Koyo Seiko Co., Ltd.		JAPAN (w/English Abstract)	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER' S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
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U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Code(s) (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
/JK/	US	2002/0082133 A1	06-27-2002	Yoshikawa et al.		
FOREIGN PATENT DOCUMENTS						
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number +-Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes No
/JK/		JP 2000-038907	02-08-2000	Nippon Seiko KK		JAPAN (w/English Abstract)
		JP 2000-038906	02-08-2000	Nippon Seiko KK		JAPAN (w/English Abstract)
		JP 10-184701	07-14-1998	NTN Corp		JAPAN (w/English Abstract)
		JP 10-110720	04-28-1998	Mitsubishi Motors Corp		JAPAN (w/English Abstract)
		JP 10-103339	04-21-1998	Koyo Seiko Co., Ltd.		JAPAN (w/English Abstract)
		JP 10-047334	02-17-1998	Nippon Seiko KK		JAPAN (w/English Abstract)
		JP 09-176740	07-08-1997	NTN Corp		JAPAN (w/English Abstract)
		JP 09-053148	02-25-1997	Kobe Steel Ltd.; Nissan Motor Co., Ltd.		JAPAN (w/English Abstract)
		JP 06-117438	04-26-1994	NTN Corp		JAPAN (w/English Abstract)
		JP 05-179350	07-20-1993	NTN Corp		JAPAN (w/English Abstract)
		GB 2 258 274 A	02-03-1993	NSK Ltd.		X
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
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/Justin Krause/						
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		APPLICANT Kouichi OKUGAMI, et al.	
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U.S. PATENT DOCUMENTS

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	US				

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number +-Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes	Translation No
/JK/		EP 0 950 723 A1	10-20-1999	Komatsu Ltd.		X	
/JK/		EP 0 811 789 A1	12-10-1997	Koyo Seiko Co., Ltd.		X	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
/JK/		KIM, C., et al., "Influence of Subzero and Shot-Peening Treatments on Impact and Fatigue Fracture Properties of Case-Hardened Steels", June 1981, Pages 43-53, v 2, CSA.
/JK/		BURRIER Jr., H., "Hardenability of Carbon and Low-Alloy Steels", 2002, ASM International.
/JK/		VANDER VOORT, "Embrittlement of Steels", 2002, ASM International.
/JK/		"Method of Impact Test for Metallic Materials", Japanese Industrial Standard JIS Z 2242, November 1999, Pages 1-7, Japanese Standards Association, Tokyo, Japan.
/JK/		"Test Pieces for Impact Test for Metallic Materials", Japanese Industrial Standard JIS Z 2202, July 1998, Pages 1-3, Japanese Standards Association, Tokyo, Japan.
/JK/		"Methods of Austenite Grain Size Determination for Steel", Japanese Industrial Standard JIS G 0551, June 1998, Pages 1-25, Japanese Standards Association, Tokyo, Japan.

EXAMINER

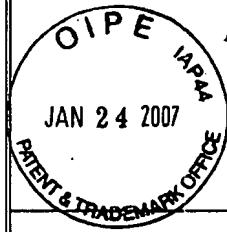
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		US					
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FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number-Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes	No
/JK/		JP 2002-339054 A	11-27-2002	DAIDO STEEL CO LTD, NISSAN MOTOR CO LTD		JAPAN (w/English abstract)	
/JK/		JP 10-204612 A	08-04-1998	NIPPON SEIKO KK		JAPAN (English abstract only)	
/JK/		JP 10-168515 A	06-23-1998	NIPPON SEIKO KK		JAPAN (English abstract only)	
/JK/		JP 2-125841 A	05-14-1990	NIPPON SEIKO KK		JAPAN (English abstract only)	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
/JK/		Japanese Office Action issued in Japanese Patent Application No. 2002-194804, dated November 28, 2006					
EXAMINER <i>/Justin Krause/</i>			DATE CONSIDERED 10/24/2007				

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U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS					Translation		
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes -Number +-Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Yes	No
/JK/		JP 10-68419 A	03-10-1998	NIPPON SEIKO KK		JAPAN (w/English abstract)	
/JK/		JP 8-49057 A	02-20-1996	NIPPON SEIKO KK		JAPAN (w/English abstract)	
/JK/		JP 9-316601 A	12-09-1997	SANYO SPECIAL STEEL CO LTD		JAPAN (w/English abstract)	
/JK/		JP 5-163563 A	06-29-1993	NACHI FUJIKOSHI CORP		JAPAN (w/English abstract)	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
/JK/		Japanese Office Action issued in Japanese Patent Application No. JP 2002-194921, dated November 28, 2006.					
EXAMINER <i>/Justin Krause/</i>			DATE CONSIDERED 10/24/2007				

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U.S. PATENT DOCUMENTS							
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	US						
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FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number-Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes	Translation No
/JK/		JP 2002-180203 A	06-26-2002	NTN CORP		JAPAN (w/English abstract)	
/JK/		JP 2002-256336 A	09-11-2002	NTN CORP		JAPAN (w/English abstract)	
/JK/		JP 7-27139 A	01-27-1995	NIPPON SEIKO KK		JAPAN (w/English abstract)	
/JK/		JP 11-140543 A	05-25-1999	NIPPON SEIKO KK		JAPAN (w/English abstract)	
/JK/		JP 2000-129347 A	05-09-2000	KOBE STEEL LTD		JAPAN (w/English abstract)	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
/JK/		Japanese Office Action Issued in Japanese Patent Application No. JP 2002-303036, dated October 24, 2006.					
EXAMINER <i>/Justin Krause/</i>				DATE CONSIDERED <i>06/29/2007</i>			

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